CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY (NOTES omitted)

CHEMISTRY

C01 INORGANIC CHEMISTRY (NOTES omitted)

C01G COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES C01D OR <u>C01F</u> (metal hydrides {monoborane, diborane or addition complexes thereof} <u>C01B 6/00</u>; salts of oxyacids of halogens <u>C01B 11/00</u>; peroxides, salts or peroxyacids <u>C01B 15/00</u>; thiosulfates, dithionites, polythionates <u>C01B 17/64</u>; compounds containing selenium, or tellurium <u>C01B 19/00</u>; binary compounds of nitrogen with metals <u>C01B 21/06</u>; azides <u>C01B 21/08</u>; {compounds containing nitrogen, other non-metals and metal <u>C01B 21/082</u>}; metal amides <u>C01B 21/092</u>; nitrites <u>C01B 21/50</u>; {compounds of noble gases <u>C01B 23/0005</u>}; phosphides <u>C01B 25/08</u>; salts of oxyacids of phosphorus <u>C01B 25/16</u>; carbides <u>C01B 32/90</u>; compounds containing silicon <u>C01B 33/00</u>; compounds containing boron <u>C01B 35/00</u>; compounds having molecular sieve properties but not having base-exchange properties <u>C01B 37/00</u>; compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, <u>C01B 39/00</u>; cyanides <u>C01C 3/08</u>; salts of cyanamide <u>C01C 3/16</u>; thiocyanates <u>C01C 3/20</u>)

1/00	Methods of preparing compounds of metals not covered by subclasses <u>C01B</u> , <u>C01C</u> , <u>C01D</u> ,	7/00 7/003	Compounds of gold Preparation involving a liquid-liquid extraction, an
	or <u>C01F</u> , in general (electrolytic production of		adsorption or an ion-exchange}
	inorganic compounds C25B 1/00)	7/006	• {Compounds containing gold, with or without
1/02	• Oxides		oxygen or hydrogen, and containing two or more
1/04	• Carbonyls		other elements}
1/06	• Halides	9/00	Compounds of zine
1/08	• Nitrates	9/00 9/003	Compounds of zinc • {Preparation involving a liquid-liquid extraction, an
1/10	• Sulfates)/005	adsorption or an ion-exchange}
1/12	• Sulfides	9/006	• {Compounds containing zinc, with or without
1/14	. Sulfites	270000	oxygen or hydrogen, and containing two or more other elements}
3/00	Compounds of copper	9/02	• Oxides; Hydroxides
3/003	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	9/03	• Processes of production using dry methods, e.g.
3/006	• {Compounds containing copper, with or without		vapour phase processes
5/000	oxygen or hydrogen, and containing two or more	9/04	• Halides
	other elements}	9/06	• Sulfates
3/02	• Oxides; Hydroxides	9/08	• Sulfides
3/04	• Halides	11/00	Compounds of cadmium
3/05	. Chlorides	11/00	• {Preparation involving a liquid-liquid extraction, an
3/06	. Oxychlorides	11/005	adsorption or an ion-exchange}
3/08	• Nitrates	11/006	• {Compounds containing cadmium, with or without
3/10	• Sulfates	11,000	oxygen or hydrogen, and containing two or more
3/12	• Sulfides		other elements}
3/14	Complexes with ammonia	11/02	• Sulfides
5/00	Compounds of silver	13/00	Compounds of mercury
5/003	• {Preparation involving a liquid-liquid extraction, an	13/003	• {Preparation involving a liquid-liquid extraction, an
	adsorption or an ion-exchange}		adsorption or an ion-exchange}
5/006	• {Compounds containing silver, with or without	13/006	• {Compounds containing mercury, with or without
	oxygen or hydrogen, and containing two or more		oxygen or hydrogen, and containing two or more
-	other elements }		other elements }
5/02	• Halides	13/02	• Oxides

13/04	• Halides
15/00	Compounds of gallium, indium or thallium
15/003	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
15/006	• {Compounds containing gallium, indium or thallium, with or without oxygen or hydrogen, and containing two or more other elements}
17/00	Compounds of germanium
17/003	 {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
17/006	 {Compounds containing germanium, with or without oxygen or hydrogen, and containing two or more other elements}
17/02	. Germanium dioxide
17/04	• Halides of germanium
19/00	Compounds of tin
19/003	 {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
19/006	 {Compounds containing tin, with or without oxygen or hydrogen, and containing two or more other elements}
19/02	• Oxides
19/04	• Halides
19/06	Stannous chloride
19/08	Stannic chloride
21/00	Compounds of lead
21/003	 {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
21/006	• {Compounds containing lead, with or without oxygen or hydrogen, and containing two or more other elements}
21/02	• Oxides
21/04	• • Lead suboxide [Pb ₂ O]
21/06	. Lead monoxide [PbO]
21/08	• • Lead dioxide [PbO ₂]
21/10	• • Red lead $[Pb_3O_4]$
21/12	• Hydroxides
21/14	. Carbonates
21/16	• Halides
21/18	• Nitrates
21/20	. Sulfates
21/21	• Sulfides
21/22	• Plumbates; Plumbites
23/00	Compounds of titanium {(preparation of Ti- compounds from ores or scraps <u>C22B 34/12</u>)}
23/001	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
23/002	• {Compounds containing titanium, with or without oxygen or hydrogen, and containing two or more other elements (<u>C01G 23/001</u> , <u>C01G 23/003</u> take precedence)}
23/003	• {Titanates (<u>C01G 23/001</u> takes precedence)}
23/005	• {Alkali titanates}
23/006	• {Alkaline earth titanates}
23/007	 {Titanium sulfides (<u>C01G 23/001</u> takes precedence)}
23/008	• {Titanium- and titanyl sulfate (<u>C01G 23/001</u> takes precedence)}
23/02	• Halides of titanium
23/022	• • {Titanium tetrachloride}

00/00/	
23/024	{Purification of tetrachloride}
23/026	• • {Titanium trichloride}
23/028	• • {Titanium fluoride}
23/04	• Oxides; Hydroxides
23/043	• • {Titanium sub-oxides}
23/047	• • Titanium dioxide
23/0475	• • • {Purification}
23/053	• • Producing by wet processes, e.g. hydrolysing titanium salts
23/0532	•••• {by hydrolysing sulfate-containing salts}
23/0534	• • • • {in the presence of seeds}
23/0536	• • • {by hydrolysing chloride-containing salts}
23/0538	• • • • {in the presence of seeds}
23/07	• • Producing by vapour phase processes, e.g. halide oxidation
23/075	• • • {Evacuation and cooling of the gaseous
23/013	suspension containing the oxide;
	Desacidification and elimination of gases
	occluded in the separated oxide}
23/08	• • • Drying; Calcining {; After treatment of
23/00	titanium oxide}
25/00	Compounds of zirconium
25/003	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
25/006	• {Compounds containing zirconium, with or without
	oxygen or hydrogen, and containing two or more
	other elements}
25/02	• Oxides
25/04	• Halides
25/06	• Sulfates
27/00	Compounds of hafnium
	Compounds of hafnium . {Preparation involving a liquid-liquid extraction, an
27/00 27/003	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
27/00	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without
27/00 27/003	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more
27/00 27/003 27/006	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements}
27/00 27/003 27/006 27/02	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides
27/00 27/003 27/006 27/02 27/02 27/04	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides
27/00 27/003 27/006 27/02	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides
27/00 27/003 27/006 27/02 27/04 27/06	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates
27/00 27/003 27/006 27/02 27/04 27/06 28/00	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic
27/00 27/003 27/006 27/02 27/04 27/06	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction,
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange}
27/00 27/003 27/006 27/02 27/04 27/06 28/00	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (<u>C01G 28/001</u> takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (<u>C01G 28/001</u>
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/002 28/004 28/005	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/005	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Halides (C01G 28/001 takes precedence)}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/002 28/004 28/005 28/007 28/008	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Halides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/005	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Halides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/007 28/008 28/007	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/002 28/004 28/005 28/007 28/008	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} { of ammonium, alkali or alkaline-earth metals or
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/005 28/007 28/008 28/002 28/002	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} {of ammonium, alkali or alkaline-earth metals or magnesium}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/007 28/008 28/007	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} { of ammonium, alkali or alkaline-earth metals or
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/005 28/007 28/008 28/002 28/002	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} {of ammonium, alkali or alkaline-earth metals or magnesium}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/002 28/005 28/007 28/008 28/007 28/008 28/023 28/023 28/026	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)} {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} {of ammonium, alkali or alkaline-earth metals or magnesium} {containing at least two metals}
27/00 27/003 27/006 27/02 27/04 27/06 28/00 28/001 28/002 28/004 28/005 28/007 28/008 28/007 28/008 28/023 28/023 28/026 28/026 29/00	 Compounds of hafnium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing hafnium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides Halides Sulfates Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds of arsenic {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} {Compounds containing arsenic, with or without oxygen or hydrogen, and containing two or more other elements (C01G 28/001 takes precedence)) {containing halogen} {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} {Sulfides (C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} Arsenates; Arsenites {(C01G 28/001 takes precedence)} { of ammonium, alkali or alkaline-earth metals or magnesium} { containing at least two metals}

29/006	• {Compounds containing bismuth, with or without oxygen or hydrogen, and containing two or more other elements.]
a a 10 a	other elements}
30/00 30/001	Compounds of antimony {Preparation involving a solvent-solvent extraction,
30/001	an adsorption or an ion-exchange}
30/002	• {Compounds containing antimony, with or without
	oxygen or hydrogen, and containing two or more
	other elements (<u>C01G 30/001</u> takes precedence)}
30/003	• {containing halogen}
30/004	• {Oxides; Hydroxides; Oxyacids (<u>C01G 30/001</u> takes precedence)}
30/005	• {Oxides}
30/006	• {Halides (<u>C01G 30/001</u> takes precedence)}
30/007	• {of binary type SbX3 or SbX5 with X
	representing a halogen, or mixed of the type
	SbX3X'2 with X,X' representing different
30/008	halogens}{Sulfides (<u>C01G 30/001</u> takes precedence)}
30/02	• Antimonates; Antimonites {(<u>C01G 30/001</u> takes
	precedence)}
30/023	• • {of ammonium, alkali or alkaline-earth metals or
	magnesium}
30/026	• • {containing at least two metals}
31/00	Compounds of vanadium
31/003	• {Preparation involving a liquid-liquid extraction, an
31/006	adsorption or an ion-exchange}(Compounds containing vanadium, with or without)
51/000	oxygen or hydrogen, and containing two or more
	other elements}
31/02	• Oxides
31/04	• Halides
33/00	Compounds of niobium
33/003	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
33/006	• {Compounds containing niobium, with or without oxygen or hydrogen, and containing two or more
	ovugen or hydrogen and containing two or more
	other elements }
35/00	other elements } Compounds of tantalum
35/00 35/003	other elements} Compounds of tantalum . {Preparation involving a liquid-liquid extraction, an
	other elements } Compounds of tantalum
35/003	 other elements } Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more
35/003 35/006	 other elements } Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange } {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements }
35/003	 other elements } Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more
35/003 35/006	 other elements } Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium
35/003 35/006 35/02	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an
35/003 35/006 35/02 37/00	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
35/003 35/006 35/02 37/00 37/003	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements}
35/003 35/006 35/02 37/00 37/003 37/006	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements}
35/003 35/006 35/02 37/00 37/003 37/006	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof
35/003 35/006 35/02 37/00 37/003 37/006 37/02 37/027	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof Chromium dioxide
35/003 35/006 35/02 37/00 37/003 37/006	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof
35/003 35/006 35/02 37/00 37/003 37/006 37/027 37/027 37/023	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof Chromium dioxide Chromium trioxide; Chromic acid
35/003 35/006 35/02 37/00 37/003 37/006 37/027 37/027 37/033 37/04	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof Chromium dioxide Chromium trioxide; Chromic acid
35/003 35/006 35/02 37/00 37/003 37/006 37/027 37/027 37/033 37/04 37/06 37/08 37/10	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof Chromium dioxide Chromium halides Chromium sulfates Chrome alum
35/003 35/006 35/02 37/00 37/003 37/006 37/027 37/027 37/033 37/04 37/06 37/08	 other elements} Compounds of tantalum {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing tantalum, with or without oxygen or hydrogen, and containing two or more other elements} Halides Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds of chromium {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} {Compounds containing chromium, with or without oxygen or hydrogen, and containing two or more other elements} Oxides or hydrates thereof Chromium dioxide Chromium halides Chromium sulfates

39/003	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
39/006	 {Compounds containing molybdenum, with or without oxygen or hydrogen, and containing two or more other elements}
39/02	• Oxides; Hydroxides
39/04	• Halides
39/06	• Sulfides
41/00	Compounds of tungsten
41/003	• {Preparation involving a liquid-liquid extraction, an
41/005	adsorption or an ion-exchange}
41/006	• {Compounds containing tungsten, with or without
	oxygen or hydrogen, and containing two or more
	other elements }
41/02	• Oxides; Hydroxides
41/04	. Halides
43/00	Compounds of uranium
43/003	• {Preparation involving a liquid-liquid extraction, an
	adsorption or an ion-exchange}
43/006	• {Compounds containing uranium, with or without
	oxygen or hydrogen, and containing two or more
10 10 1	other elements}
43/01	• Oxides; Hydroxides
43/025	• Uranium dioxide
43/04	• Halides of uranium
43/06	. Fluorides
43/063 43/066	$ \{ \text{Hexafluoride (UF_6)} \} $
43/080	{Preparation} Chlorides
43/08	Bromides
43/10	Iodides
45/00	Compounds of manganese
	WARNING
	Group C01G 45/00 is impacted by reclassification
	into groups <u>C01G 45/03</u> , <u>C01G 45/05</u> ,
	<u>C01G 45/20, C01G 45/22</u> and <u>C01G 45/24</u> .
	All groups listed in this Warning should be
	considered in order to perform a complete search.
45/01	• Preparation or separation involving a liquid-liquid
	extraction, an adsorption or an ion-exchange
	WARNING
	Group C01G 45/01 is impacted by
	reclassification into groups $CO1G 45/03$,
	<u>C01G 45/05, C01G 45/20, C01G 45/22</u> and
	<u>C01G 45/24</u> .
	All groups listed in this Warning should be
	considered in order to perform a complete
	search.
45/02	• Oxides
	WARNING
	Group <u>C01G 45/02</u> is impacted by reclassification into groups <u>C01G 45/022</u> ,
	reclassification into groups (111 + 45/117)

reclassification into groups <u>C01G 45/022</u>, <u>C01G 45/024</u>, <u>C01G 45/026</u>, <u>C01G 45/028</u> and <u>C01G 45/03</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

45/022	Manganese monoxide	45/06	• Halides; Oxyhalides
	WARNING		WARNING
45/024	 Group <u>C01G 45/022</u> is incomplete pending reclassification of documents from group <u>C01G 45/02</u>. All groups listed in this Warning should be considered in order to perform a complete search. Manganese dioxide 	45/07	 Group <u>C01G 45/06</u> is impacted by reclassification into group <u>C01G 45/07</u>. All groups listed in this Warning should be considered in order to perform a complete search. Chlorides; Oxychlorides WARNING
	 WARNING Group <u>C01G 45/024</u> is incomplete pending reclassification of documents from group <u>C01G 45/02</u>. All groups listed in this Warning should be considered in order to perform a complete search. 		Group <u>C01G 45/07</u> is incomplete pending reclassification of documents from group <u>C01G 45/06</u> . All groups listed in this Warning should be considered in order to perform a complete search.
	search.	45/08	• Nitrates
45/026	Dimanganese trioxide	45/10	• Sulfates
	WARNING Group <u>C01G 45/026</u> is incomplete pending	45/12 45/1207	 Complex oxides containing manganese and at least one other metal element Permanganates ([MnO₄)⁻] or manganates
	reclassification of documents from group <u>C01G 45/02</u> . All groups listed in this Warning should be	45/1214 45/1221	 ([MnO₄)²⁻] containing alkali metals Manganates or manganites with trivalent

considered in order to perform a complete search.

45/028 . . Trimanganese tetraoxide

WARNING

Group C01G 45/028 is incomplete pending reclassification of documents from group C01G 45/02.

All groups listed in this Warning should be considered in order to perform a complete search.

45/03 . Hydroxides; Oxyhydroxides

WARNING

Group C01G 45/03 is incomplete pending reclassification of documents from groups C01G 45/00 and C01G 45/02.

All groups listed in this Warning should be considered in order to perform a complete search.

- 45/04 . Carbonyls
- 45/05 . Carbonates

WARNING

Group CO1G 45/05 is incomplete pending reclassification of documents from group C01G 45/00.

All groups listed in this Warning should be considered in order to perform a complete search.

precedence) WARNING

thereof

. . .

. .

45/1228

45/1235

45/1242

45/125

45/1257

45/1264

45/1271

45/1278

45/1285

45/1292

45/20

Group <u>C01G 45/20</u> is incomplete pending reclassification of documents from group <u>C01G 45/00</u>.

manganese, tetravalent manganese or mixtures

• • • of the type $(MnO_2)^{-}$, e.g. LiMnO₂ or

• • • of the type $(MnO_3)^{n-}$, e.g. CaMnO₃

. . . containing lithium, e.g. Li_2MnO_3 or

• • • of the type $(Mn_2O_4)^{2-}$, e.g. $Li_2Mn_2O_4$ or

of the type $(Mn_2O_4)^{-}$, e.g. LiMn_2O_4 or

. . . containing rare earths, e.g. (La_{1-x}Ca_x)MnO₃

{of the type $(Mn_2O_7)^{n-}$, e.g. $(Sr_{2-x}Nd_x)Mn_2O_7$ or

• • {of the type $(Mn_2O_8)^{n-}$, e.g. $(LaSr_3)Mn_2O_8$ }

. Compounds containing manganese, with or without

oxygen or hydrogen, and containing one or more

other elements (C01G 45/04 - C01G 45/12 take

 $Li(M_xMn_{1-x})O_2$

 $Li_2(M_xMn_{2-x})O_4$

 $Li(M_xMn_{2-x})O_4$

 $Li_2(M_xMn_{1-x})O_3$

or LaMnO₃

• • • {of the type $(Mn_2O_5)^{n-}$ }

• • • {of the type $(Mn_5O_{12})^{n-}$ }

 $Tl_2Mn_2O_7$

All groups listed in this Warning should be considered in order to perform a complete search.

COLC

45/22 . . Compounds containing manganese, with or without oxygen or hydrogen, and containing two or more other elements

WARNING

Group CO1G 45/22 is incomplete pending reclassification of documents from group <u>C01G 45/00</u>.

Group C01G 45/22 is also impacted by reclassification into group C01G 45/24.

All groups listed in this Warning should be considered in order to perform a complete search.

45/24 . . Hydroxides

WARNING

Group C01G 45/24 is incomplete pending reclassification of documents from groups C01G 45/00 and C01G 45/22.

All groups listed in this Warning should be considered in order to perform a complete search.

47/00 **Compounds of rhenium**

47/003	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
47/006	 {Compounds containing rhenium, with or without oxygen or hydrogen, and containing two or more other elements}
49/00	Compounds of iron
49/0009	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
49/0018	• {Mixed oxides or hydroxides, (C01G 49/0009 takes precedence)}
49/0027	• • {containing one alkali metal}
49/0036	• • {containing one alkaline earth metal, magnesium or lead}
49/0045	• • {containing aluminium}
49/0054	• • {containing one rare earth metal, yttrium or scandium}
49/0063	• • {containing zinc}
40/0072	

49/0072 • {containing manganese} 49/0081 • Containing iron in unusual valence state [IV, V, VI]} 49/009 • {Compounds containing iron, with or without oxygen or hydrogen, and containing two or more other elements } 49/02 • Oxides; Hydroxides {(C01G 49/0018 takes

- precedence)} 49/04 . . Ferrous oxide [FeO]
- . Ferric oxide [Fe₂O₃] 49/06 49/08 . . Ferroso-ferric oxide [Fe₃O₄]
- 49/10 • Halides {(<u>C01G 49/0018</u> takes precedence)}
- 49/12 • Sulfides {(<u>C01G 49/0018</u> takes precedence)}
- 49/14 • Sulfates {(<u>C01G 49/0018</u> takes precedence)}
- 49/16 Carbonyls {(<u>C01G 49/0018</u> takes precedence)}

51/42

51/44 51/50

51/52

51/54

51

51/00	Compounds of cobalt WARNING
	Group <u>C01G 51/00</u> is impacted by reclassification into groups <u>C01G 51/05</u> , <u>C01G 51/08</u> , <u>C01G 51/085</u> , <u>C01G 51/15</u> , <u>C01G 51/80</u> , <u>C01G 51/82</u> and <u>C01G 51/84</u> . All groups listed in this Warning should be considered in order to perform a complete search.
51/01 51/02 51/04	 Preparation or separation involving a liquid-liquid extraction, an adsorption or an ion-exchange Carbonyls Oxides
51/01	WARNING
	Group <u>C01G 51/04</u> is impacted by reclassification into group <u>C01G 51/05</u> . All groups listed in this Warning should be considered in order to perform a complete search.
51/05	• Hydroxides; Oxyhydroxides
	WARNING
	Group <u>C01G 51/05</u> is incomplete pending reclassification of documents from groups <u>C01G 51/00</u> and <u>C01G 51/04</u> .
	All groups listed in this Warning should be considered in order to perform a complete search.
51/06	• Carbonates
51/08	• Halides; Oxyhalides
	WARNING
	Groups <u>C01G 51/08</u> and <u>C01G 51/085</u> are incomplete pending reclassification of documents from group <u>C01G 51/00</u> .
	All groups listed in this Warning should be considered in order to perform a complete search.
51/085 51/10	. {Chlorides; Oxychlorides}. Sulfates
51/15	• Sulfides; Oxysulfides
	WARNING
	Group <u>C01G 51/15</u> is incomplete pending reclassification of documents from group <u>C01G 51/00</u> .
	All groups listed in this Warning should be considered in order to perform a complete search.
51/20 51/40	Complexes with ammoniaComplex oxides containing cobalt and at least one other metal element
51/10	

. . containing alkali metals, e.g. LiCoO₂

Li(MyCoxMn1-x-y)O2

Li(MyCoxMn2-x-y)O4

or Li₂(M_yCo_xMn_{2-x-y})O₄

• • • • of the type $(MnO_2)^{n-}$, e.g. $Li(Co_xMn_{1-x})O_2$ or

• • • • of the type $(Mn_2O_4)^{2-}$, e.g. $Li_2(Co_xMn_{2-x})O_4$

. . . of the type (Mn_2O_4) , e.g. $Li(Co_xMn_{2-x})O_4$ or

. . . containing manganese

CPC - 2025.05

51/56	of the type $(MnO_3)^{2^-}$, e.g. $Li_2(Co_xMn_{1-x})O_3$ or $Li_2(M_vCo_xMn_{1-x-v})O_3$
51/58	• • • {of the type $(Mn_2O_8)^{n-}$ }
51/60	• • • • {of the type $(Mn_2O_8)^n$ }
51/62	• • • • (of the type $(Mn_2O_7)^n$)
51/64	• • • • {of the type $(Mn_2O_5)^{n-1}$ }
51/66	 containing alkaline earth metals, e.g. SrCoO₃
51/68	 containing and the earth inetails, e.g. (La_{0.3}Sr_{0.7})CoO₃ containing rare earths, e.g. (La_{0.3}Sr_{0.7})CoO₃
51/70	 containing rare earths, e.g. LaCoO₃ (<u>C01G 51/68</u> takes precedence)
51/80	Compounds containing cobalt, with or
51/00	without oxygen or hydrogen, and containing
	one or more other elements ($C01G 51/02$,
	<u>C01G 51/06</u> - <u>C01G 51/40</u> take precedence)
	WARNING
	Group $\underline{\text{C01G 51/80}}$ is incomplete pending
	reclassification of documents from group <u>C01G 51/00</u> .
	All groups listed in this Warning should be
	considered in order to perform a complete
	search.
51/82	Compounds containing cobalt, with or without
	oxygen or hydrogen, and containing two or more
	other elements
	WARNING
	Group <u>C01G 51/82</u> is incomplete pending reclassification of documents from group
	<u>C01G 51/00</u> .
	Group $\underline{\text{C01G 51/82}}$ is also impacted by
	reclassification into group C01G 51/84.
	All groups listed in this Warning should be
	considered in order to perform a complete
	search.
51/84	• • Hydroxides
	WARNING
	Group C01G 51/84 is incomplete pending
	reclassification of documents from groups C01G 51/00 and C01G 51/82.
	All groups listed in this Warning should be
	considered in order to perform a complete
	search.
53/00	Compounds of nickel
	WARNING
	Group C01G 53/00 is impacted by reclassification
	into groups <u>C01G 53/05</u> , <u>C01G 53/08</u> ,
	<u>C01G 53/09, C01G 53/11, C01G 53/80,</u>
	<u>C01G 53/82</u> and <u>C01G 53/84</u> .
	All groups listed in this Warning should be

considered in order to perform a complete search.

- 53/01 Preparation or separation involving a liquid-liquid extraction, an adsorption or an ion-exchange
- 53/02 . Carbonyls

53/04 . Oxides

WARNING

Group C01G 53/04 is impacted by reclassification into group CO1G 53/05.

All groups listed in this Warning should be considered in order to perform a complete search.

53/05 . Hydroxides; Oxyhydroxides

WARNING

Group CO1G 53/05 is incomplete pending reclassification of documents from groups C01G 53/00 and C01G 53/04.

All groups listed in this Warning should be considered in order to perform a complete search.

53/06 . Carbonates

. Halides; Oxyhalides 53/08

WARNING

Groups CO1G 53/08 and CO1G 53/09 are incomplete pending reclassification of documents from group CO1G 53/00.

All groups listed in this Warning should be considered in order to perform a complete search.

- 53/09 . . Chlorides; Oxychlorides
- 53/10 . Sulfates
- . Sulfides; Oxysulfides 53/11

WARNING

Group CO1G 53/11 is incomplete pending reclassification of documents from group C01G 53/00.

All groups listed in this Warning should be considered in order to perform a complete search.

- 53/12 . Complexes with ammonia
- 53/40 . Complex oxides containing nickel and at least one other metal element
- 53/42 • containing alkali metals, e.g. LiNiO₂
- 53/44 . . . containing manganese
- 53/50. . . . of the type $(MnO_2)^{n-}$, e.g. $Li(Ni_xMn_{1-x})O_2$ or Li(M_vNi_xMn_{1-x-v})O₂

WARNING

Group C01G 53/50 is impacted by reclassification into groups C01G 53/502, C01G 53/504, C01G 53/506 and <u>C01G 53/51</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

53/502	• • • • containing lithium and cobalt	53/82	• • Compounds containing nickel, with or without
	WARNING		oxygen or hydrogen, and containing two or more other elements
	Groups <u>C01G 53/502</u> , <u>C01G 53/504</u> and <u>C01G 53/506</u> are incomplete		WARNING
	pending reclassification of documents from group <u>C01G 53/50</u> . All groups listed in this Warning should		Group <u>C01G 53/82</u> is incomplete pending reclassification of documents from group <u>C01G 53/00</u> .
	be considered in order to perform a complete search.		Group <u>C01G 53/82</u> is also impacted by reclassification into group <u>C01G 53/84</u> .
53/504	•••••• with the molar ratio of nickel with respect to all the metals other than alkali metals higher than or equal to 0.5, e.g.		All groups listed in this Warning should be considered in order to perform a complete search.
52/50/	$Li(M_zNi_xCo_yMn_{1-x-y-z})O_2 \text{ with } x \ge 0.5$	53/84	• • Hydroxides
53/506			WARNING
	alkali metals higher than or equal to 0.8, e.g. $Li(M_zNi_xCo_yMn_{1-x-y-z})O_2$ with $x \ge 0.8$		Group $C01G 53/84$ is incomplete pending reclassification of documents from groups $C01G 53/00$ and $C01G 53/82$.
53/51	containing sodium		All groups listed in this Warning should be
	WARNING		considered in order to perform a complete search.
	Group <u>C01G 53/51</u> is incomplete		
	pending reclassification of documents from group <u>C01G 53/50</u> .	55/00	Compounds of ruthenium, rhodium, palladium, osmium, iridium, or platinum
	All groups listed in this Warning should be considered in order to perform a	55/001	• {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
	complete search.	55/002	• {Compounds containing ruthenium, rhodium,
53/52	of the type $(Mn_2O_4)^{2^-}$, e.g. $Li_2(Ni_xMn_{2-x})O_4$ or $Li_2(M_yNi_xMn_{2-x-y})O_4$		palladium, osmium, iridium or platinum, with or without oxygen or hydrogen, and containing two or more other elements (<u>C01G 55/007</u> takes
53/54	• • • of the type $(Mn_2O_4)^-$, e.g. $Li(Ni_xMn_{2-x})O_4$ or $Li(M_yNi_xMn_{2-x-y})O_4$		precedence)}
53/56	• • • • of the type $(MnO_3)^{2-}$, e.g. $Li_2(Ni_xMn_{1-x})O_3$ or	55/004 55/005	• {Oxides; Hydroxides}
00,00	$Li_2(M_yNi_xMn_{1-x})O_3$	55/003 55/007	 {Halides} {Compounds containing at least one carbonyl
53/58	• • • • {of the type $(Mn_2O_8)^n$ }	55/007	group}
53/60	• • • • {of the type $(Mn_2O_7)^{n-}$ }	55/008	• • {Carbonyls}
53/62	{of the type $(Mn_2O_5)^n$ }	56/00	Compounds of transuranic elements
53/64 53/66	• • • {of the type $(Mn_5O_{12})^{n-}$ }	56/001	• {Preparation involving a liquid-liquid extraction, an
33/00	 containing alkaline earth metals, e.g. SrNiO₃ or SrNiO₂ 		adsorption or an ion-exchange}
53/68 53/70	 containing rare earths, e.g. (La_{1.62} Sr_{0.38})NiO₄ containing rare earths, e.g. LaNiO₃ (C01G 53/68) 	56/002	 {by adsorption or by ion-exchange on a solid support}
55/10	takes precedence)	56/003	• {Compounds containing transuranic elements, with
53/80	• Compounds containing nickel, with or		or without oxygen or hydrogen, and containing
	without oxygen or hydrogen, and containing		two or more other elements (<u>C01G 56/001</u> takes
	one or more other elements ($\underline{C01G 53/02}$,	56/004	precedence)}{Compounds of plutonium (<u>C01G 56/001</u> takes
	<u>C01G 53/06</u> - <u>C01G 53/40</u> take precedence)	20,001	precedence)}
	WARNING	56/005	• {Oxides; Hydroxides}
	Group C01G 53/80 is incomplete pending	56/006	• • {Halides}
	reclassification of documents from group <u>C01G 53/00</u> .	56/007	• {Compounds of transuranic elements (<u>C01G 56/001</u> and <u>C01G 56/004</u> take precedence)}
	All groups listed in this Warning should be	56/008	• • {Compounds of neptunium}
	considered in order to perform a complete	56/009	• • {Compounds of americium}
	search.	99/00	Subject matter not provided for in other groups of this subclass
		99/003	 {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}

99/006 • {Compounds containing a metal not provided for elsewhere in this subclass, with or without oxygen or hydrogen, and containing two or more other elements (<u>C01G 99/003</u> takes precedence)}